US ERA ARCHIVE DOCUMENT

TDMS	DATA EVALUATION REC	ORD PA	PAGE 1 OF	
CASE GS		PM	//	
CHEM Diazino	<u>n</u>			
BRANCH EEB	_ DISC			
FORMULATION _	Technical, 14G (14.3%	ai granular)	•	
FICHE/MASTER	ID ROODIOO2			
CITATION: Hi	<pre>11, E.F.; Camardese, M. Anticholinesterase Ir Grade Versus Granular and Environmental Saf</pre>	nsecticides to Bird Formulations. Ec	ls; Technical	
SUBST. CLASS=				
OTHER SUBJECT PRIM:	DESCRIPTORS			
DIRECT REVIEW	TIME= 1 week (MH) STAR	RT DATE April 1986	END DATE April 1986	
TITLE /	Margaret Rostker Wildlife Biologist EEB	H.T. Craver		
LOC./TEL: SIGNATURE:	557-7600	5,	14/87	
APPROVED BY:	Harry Craven		dan kalangan ang karang karan	
TITLE: ORG:	Supervisory Biologist EEB			
LOC./TEL:	557-7600		, ,	
SIGNATURE:	Henry T. Creven	. 5/	4/87	
This s	study is supplemental dations from guidelines.	ue to lack of all	raw data and hazard	

This study is supplemental due to lack of all raw data and miner deviations from guidelines. It is useful in hazard assessment and shows Diazinon LD50 = 10 mg ai/kg to bobwhite Quail when technical material is tested, and Bobwhite LD50 = 8 mg ai/kg when granular 14.37% ai (14G) is tested.

11.

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DATA EVALUATION RECORD

- 1. Chemical: Diazinon
- 2. Test Material: Technical and 14.3% ai granular (14G).
- 3. Study Type: Single oral dose to Bobwhite Quail
- 4. Hill, E.F.; Camardese, M.B. (1986) Toxicity Study ID: of Anticholinesterase Insecticides to Birds: Technical Grade Versus Granular Formulations. Ecotoxicology and Environmental Safety. 8:551-563.
- Reviewed by: Margaret Noods...
 Wildlife Biologist 5. EEB/HED

Signature: 7.7 Craven

Date: 5/4/87

Signature: Henry 7. Craven

Date: 5/4/87

6. Approved by:

Harry Craven Supervisory Biologist

EEB/HED

7. Conclusions:

> Diazinon LD50 = 50 mg/kg ai for technical and 8 mg/kg ai for 14G for Bobwhite Quail.

The study provides useful data for a hazard assessment but are classed Supplemental because the tests were not conducted strictly according to guidelines.

- Recommendations: N/A
- 9. Background: N/A
- Discussion of Individual Test: 10.

Diazinon is discussed in this DER.

Length of Study?
NOEC/LOEC?
To ai Tech?
CL'S?

11. Materials and Methods:

- a. Test Animals: Ten to twelve week old Bobwhite Quail from Fayetteville, North Carolina were purchased and held in test facilities. The Bobwhite were tested at 16 to 20 weeks of age, with mean weight = 205 g.
- b. Dose: Oral dosing.
- c. <u>Design</u>: 5 dose levels, geometrically spaced; 10 birds per dose level.
- d. Statistics: Probit analysis; two-tailed to test.

12. Reported Resulted:

 $LD_{50} = 10$ mg ai/kg for technical grade and $LD_{50} = 8$ mg ai/kg for 14G.

13. Study Author's Conclusions/QA Measures:

See reported results.

14. Reviewer's Discussion and Interpretation of Study:

- a. <u>Test Procedures</u>: The study is in accordance with guideline protocols.
- b. Statistical Analysis: The analysis was properly conducted.
- c. <u>Discussion/Results</u>: See reported results. Diazinon is considered "very highly toxic" to birds.

15. Adequacy of Study:

- 1. Classification: Supplemental.
- 2. Rationale: Guideline deviations though only minor.
- 3. Repair: N/A.